PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form PCT/ISA/220) as well as, where applicable, item 5 below.				
CM2207MQ/VB	ACTION International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
International application No.					
PCT/US 00/27137	02/10/2000	08/10/1999			
Applicant					
THE PROCTER & GAMBLE COMP	ANY et al.				
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.					
	This International Search Report consists of a total of sheets. X It is also accompanied by a copy of each prior art document cited in this report.				
Basis of the report					
 a. With regard to the language, the language in which it was filed, un 	international search was carried out on the bas less otherwise indicated under this item.	sis of the international application in the			
the international search w Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of the	he international application furnished to this			
was carried out on the basis of th	nd/or amino acid sequence disclosed in the in e sequence listing: onal application in written form.	ternational application, the international search			
filed together with the inte	ernational application in computer readable form	n.			
furnished subsequently to this Authority in written form.					
furnished subsequently to this Authority in computer readble form.					
international application a	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished					
2. Certain claims were fou	ind unsearchable (See Box I).				
3. Unity of invention is lac	king (see Box II).				
4. With regard to the title,					
l ——	ubmitted by the applicant.				
	shed by this Authority to read as follows:				
5. With regard to the abstract,					
the text is approved as submitted by the applicant.					
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.					
6. The figure of the drawings to be published with the abstract is Figure No.					
as suggested by the appl	icant.	None of the figures.			
because the applicant fai	led to suggest a figure.				
because this figure better	characterizes the invention.				

INTERNATIONAL SEARCH REPORT

International Application No PSSUS 00/27137

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C09J123/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC\ 7\ C09J$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	WO 95 10575 A (EXXON CHEMICAL PATENTS INC) 20 April 1995 (1995-04-20) page 6, line 1 -page 7, line 17	1-7
X	WO 96 26967 A (MINNESOTA MINING & MFG) 6 September 1996 (1996-09-06) page 14, line 23 -page 15, line 5	1-7
Y	WO 99 20664 A (MINNESOTA MINING & MFG) 29 April 1999 (1999-04-29) page 25, line 6 - line 17	1-7
T	WO 99 52955 A (RIEGER BERNHARD) 21 October 1999 (1999-10-21) the whole document	1-7
	-/	

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.		
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filing date C* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O* document referring to an oral disclosure, use, exhibition or other means P* document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "8" document member of the same patent family 		
Date of the actual completion of the international search 19 January 2001	Date of mailing of the international search report 07/02/2001		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Schmidt, H		

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INTERNATIONAL SEARCH REPORT

International Application No PS US 00/27137

C.(Continual	tion) DOCUMENTS CONSIDEA DO BE RELEVANT	73 0	
	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
<u> </u>	COLLINS ET Al: "elastomeric		
	polypropylene" MACROMOLECILLES		1-7
	vol. 28, 1995, pages 3771-3778, XP000507390		
	table 5 		
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	portinuation of accord should (AAA 2000)		

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
POOLUS 00/27137

Publication

Patent document cited in search repor	rt .	Publication date	Patent family member(s)	Publication date
WO 9510575	Α	20-04-1995	NONE	
WO 9626967	Α	06-09-1996	AU 4702796 A EP 0812335 A EP 0891991 A JP 11501342 T	18-09-1996 17-12-1997 20-01-1999 02-02-1999
WO 9920664	A	29-04-1999	AU 9808198 A EP 1023339 A	10-05-1999 02-08-2000
WO 9952955	Α	21-10-1999	DE 19816154 A AU 3420999 A AU 3706899 A WO 9952950 A	21-10-1999 01-11-1999 01-11-1999 21-10-1999

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

		(
Applicant's	or agent's file reference		See Notification of Transmittal of International			
CM2207N	MQ/VB	FOR FURTHER ACTION	Preliminary Examination Report (Form PCT/IPEA/416)			
Internationa	l application No.	International filing date (day/monta	h/year) Priority date (day/month/year)			
PCT/US0	0/27137	02/10/2000	08/10/1999			
C09J123/	I Patent Classification (IPC) or na /10	ational classification and IPC				
Applicant	OTED & OALADI E COLAD	AANZ -1 -1				
THE PRO	OCTER & GAMBLE COMP	'ANY et al.				
and is	and is transmitted to the applicant according to Article 36.					
,	ier Orth consists of a total of	5 sheets, including this cover s	neet.			
be	een amended and are the bas	ed by ANNEXES, i.e. sheets of the sis for this report and/or sheets of the Administrative Instruction.	ne description, claims and/or drawings which have containing rectifications made before this Authority ons under the PCT).			
These	annexes consist of a total of	sheets.				
±-						
3. This re	port contains indications rela	ating to the following items:				
1	Basis of the report					
, 11	☐ Priority					
III	•	pinion with regard to novelty, inv	ventive step and industrial applicability			
IV	☐ Lack of unity of invention					
٧	Reasoned statement un citations and explanation	nder Article 35(2) with regard to one suporting such statement	novelty, inventive step or industrial applicability;			
VI	☐ Certain documents cite	ed				
VII	☐ Certain defects in the in	nternational application				
VIII	☑ Certain observations or	n the international application				
Date of submission of the demand		Date of o	Date of completion of this report			
05/02/200	1	23.01.20	002			
	ailing address of the internationa xamining authority:		ed officer			
<u>)</u>	European Patent Office - P.B. 58 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 68	Schmid	dt, H			
	Fax: +31 70 340 - 3016	'	ne No. +31.70.340.2461			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/27137

I.	Basis	s of t	he r	report
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1. With regard to the elements of the international application (Replacement sheets which have been furnithe receiving Office in response to an invitation under Article 14 are referred to in this report as "original and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:							
	1-1	11	as originally filed				
	Cla	aims, No.:					
-	1-7	,	as originally filed				
2.	Wit lan	th regard to the lang guage in which the	guage, all the elements marked above were available or furnished to this Authority in the international application was filed, unless otherwise indicated under this item.				
	The	ese elements were a	available or furnished to this Authority in the following language: , which is:				
		the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of pu	ublication of the international application (under Rule 48.3(b)).				
		the language of a 55.2 and/or 55.3).	translation furnished for the purposes of international preliminary examination (under Rule				
3.	Wit	h regard to any nuc ernational preliminar	eleotide and/or amino acid sequence disclosed in the international application, the y examination was carried out on the basis of the sequence listing:				
		contained in the in	ternational application in written form.				
		filed together with the international application in computer readable form.					
		☐ furnished subsequently to this Authority in written form.					
		☐ furnished subsequently to this Authority in computer readable form.					
		☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
		The statement that listing has been full	t the information recorded in computer readable form is identical to the written sequence rnished.				
4.	The	amendments have	resulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/27137

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: No: Claims

Claims 1-7

Inventive step (IS)

Yes:

Claims

No:

Claims 1-7

Industrial applicability (IA)

Yes: Claims 1-7

No: Claims

2. Citations and explanations see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

1. The following documents (D1-D2) are referred to in this opinion; the numbering will be adhered to in the rest of the procedure:

D1 WO-A-96/26967 D2 WO-A-99/20664

Box V

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- 2. The subject matter of present claim 1-7 does not appear to be novel in the sense of Art. 33(2) PCT
- 2.1 Subject matter of claim 1 is an article in which two elements are joined by an olefinic homopolymer of an isotacticity of less than 60% as determined from the (mmmm) ratio in NMR.

Example 36 in D1 describes a homopolymeric pressure sensitive adhesive of M_w =500.000, M_n =228.000. Page 15 line 4-5 discloses, that these adhesives have an (mmmm) percentage of 6-/+3%. According to table 3 the adhesives are used to join polypropylene to glass. The articles disclosed in D1 therefore are two elements of polypropylene and glass joined by a homopolymeric polypropylene with an isotacticity of less than 60%. Claim 1 is not novel in view of D1.

Claim 1 is also not novel in view of D2. It describes polypropylene used to make pressure sensitive adhesive (page 21, lines 13-16). Example 12 describes a homopolypropylene with an (mmmm) content of 30.9%. Although a skilled man will implicitly assume that an adhesive will be used to join two elements thus manufacturing an article, such articles are for example also disclosed in claim 24 and the tests in example 22 of D2.

- 2.2 Claims 2-7 do not contain new subject matter not disclosed in one of D1 or D2 (see also Box VIII)
- 3. Claims 1-7 to not appear to be inventive in view of Art. 33(3) PCT
- 2.1 None of the parameters characterizing the claimed articles disclosed in the description or the claims of present application lead to a technical effect which has

been demonstrated by comparative examples. Lacking evidence for a technical effect, all solutions including parameters serving as technical features have to be regarded as solutions to the problem of providing an alternative article comprising two elements joined by an elastic adhesive. Since articles comprising elastic adhesives are known (see D2: example 22 on page 48 describes articles of PBT joined by an adhesive. The adhesive comprises polypropylene of molecular weight M_w =710000 prepared according example 14. The polymer has a mmmm content of 0.9%, is untacky and elastic), an alternative elastic adhesive only characterised by more parameters not resulting in demonstrated technical effects cannot be regarded as inventive.

Box VIII

- 4.1 Claims 3, 4 and 6 of present application claim a result to be achieved by the present application and claim the underlying technical problem rather than its solution (PCT Guidelines III 4.7)
- 4.2 The term "an isotacticity of less than 60% of (mmmm) pentad concentration" in claims 1 and 7 is not clear. To what does the percentage refer to? Are the other 40% other pentads or other tacticity schemes? Moreover, the claim does not make clear how the (mmmm) pentads are measured (Art. 6 PCT)